

High Current Feedthru Capacitors



AEC-Q200 Qualified W2H Series

GENERAL DESCRIPTION

High current feedthru capacitors are designed as a broad-band EMI filter that is specially designed to have high current handling capability. These SMT feedthru filters offer an optimized frequency response with high attenuation across a wide RF spectrum due to optimized parallel and series inductances. These W2H feedthru filters can actually replace discrete L/C filter networks.

FEATURES

- Low parallel inductance provides significant noise reduction in circuits with operating frequencies up to 5GHz
- Broad frequency response with high attenuation
- High rated current – up to 2A for 0805
- Small size – 0805
- Reeling in accordance with EIA-481

MECHANICAL CHARACTERISTICS

- Available in EIA 0805
- Plated Tin over Nickel Barrier
- Packaged in Tape & Reel

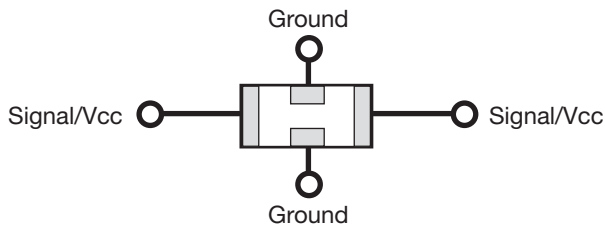
TYPICAL APPLICATIONS

- High current power (Vcc) lines
- PA decoupling
- DC:DC converters
- Regulators
- Power supervisory circuits

HOW TO ORDER

W2H1	5	C	473	8	A	T	3	A
Size & Style	Voltage	Dielectric	Capacitance Code	Capacitance Tolerance	Failure Rate	Terminations	Packaging Code (Reel Size)	Quantity Code (Pcs./Reel)
W2H1 = 0805 Ni-Sn L2H1 = 0805 SnPb	3 = 25v 5 = 50v 1 = 100v	A = NP0 C = X7R		8 = +50/-20% M = ±20%	4 = Automotive	T = Plated Ni & Sn B = Plated SnPb	1 & 2 = 7" Reel Embossed Tape 3 & 4 = 13" Reel Embossed Tape	F = 1,000 A = 2,000, 4,000 or 10,000

PINOUT CONFIGURATION



W2H1 – 0805 Style



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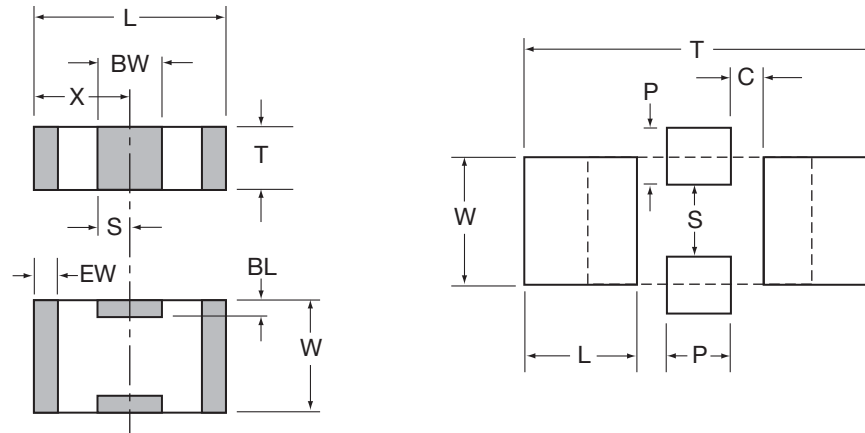
ELECTRICAL PARAMETERS

Insulation Resistance	1000 MΩ Minimum
DC Resistance	<0.150 Ω
Operating Temperature	-55C to +125C

CAPACITOR VALUES

Part Number	Size	Dielectric	Capacitance	Tolerance	Voltage	Current
W2H13C 104 84T	0805	X7R	100,000pF	+50%, -20%	25V	2A
W2H15C 473 84T	0805	X7R	47,000pF	+50%, -20%	50V	2A
W2H15C 223 84T	0805	X7R	22,000pF	+50%, -20%	50V	1A
W2H15C 103 84T	0805	X7R	10,000pF	+50%, -20%	50V	1A
W2H15C 102 84T	0805	X7R	1,000pF	+50%, -20%	50V	1A
W2H11A 471 84T	0805	NPO	470pF	+50%, -20%	100V	0.5A
W2H11A 221 84T	0805	NPO	220pF	+50%, -20%	100V	0.5A
W2H11A 101 84T	0805	NPO	100pF	+50%, -20%	100V	0.5A
W2H11A 470 84T	0805	NPO	47pF	+50%, -20%	100V	0.5A
W2H11A 220 84T	0805	NPO	22pF	+50%, -20%	100V	0.5A

PHYSICAL DIMENSIONS AND PAD LAYOUT



W2H1 – 0805 Style

PHYSICAL DIMENSIONS

	L	W	T	BW	BL	ES	EW	X	S
W2H1- 0805 MM (in.)	2.01 ± 0.20 (0.079 ± 0.008)	1.25 ± 0.20 (0.049 ± 0.008)	1.14 Max. (0.045 Max.)	0.46 ± 0.10 (0.018 ± 0.004)	0.18 + 0.25 - 0.08 (0.007 + 0.010 - 0.003)	NA	0.25 ± 0.13 (0.010 ± 0.005)	1.02 ± 0.10 (0.040 ± 0.004)	0.23 ± 0.05 (0.009 ± 0.002)

PAD DIMENSIONS

	T	P	S	W	L	C	X
W2H1- 0805 MM (in.)	3.45 (0.136)	0.51 (0.020)	0.76 (0.030)	1.27 (0.050)	1.02 (0.040)	0.46 (0.018)	NA